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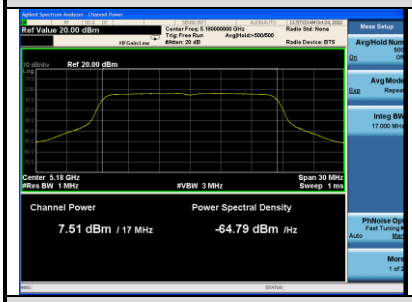
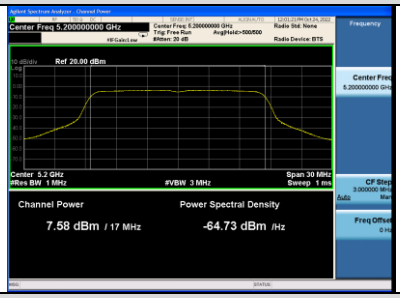
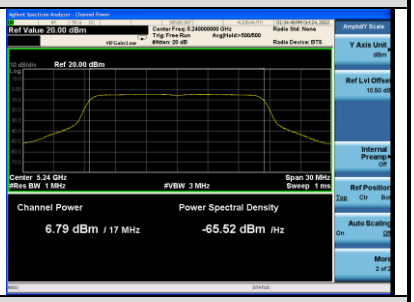
SISO		
IEEE 802.11a		
		
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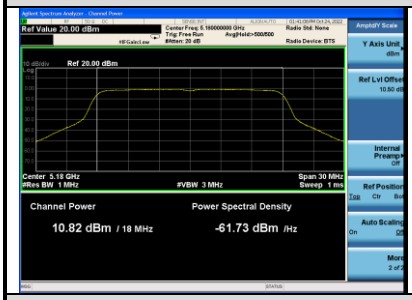	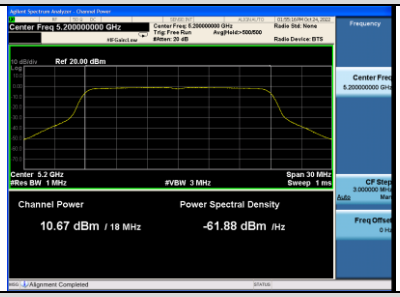	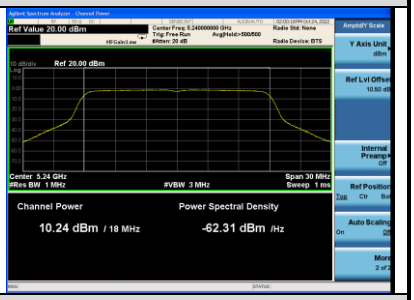
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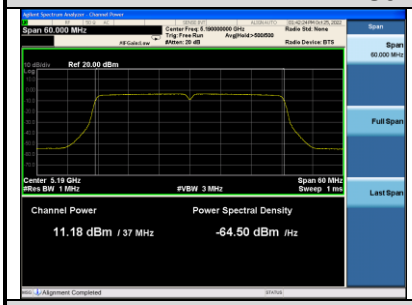	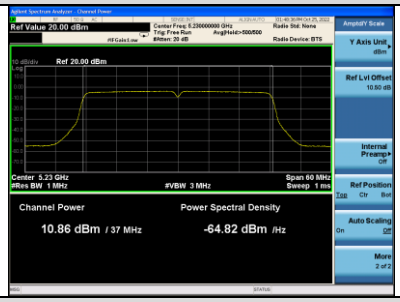	---
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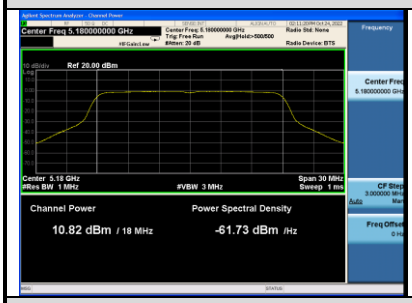	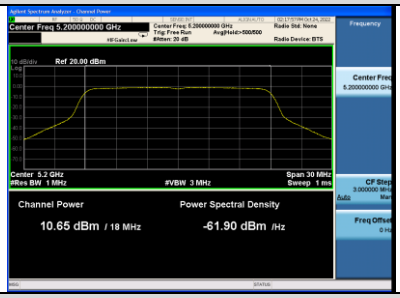	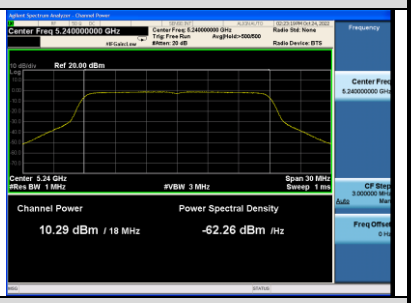
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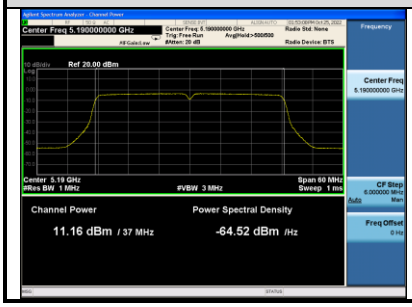	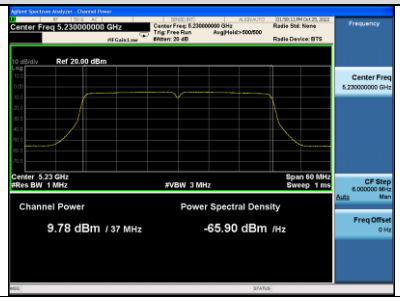	

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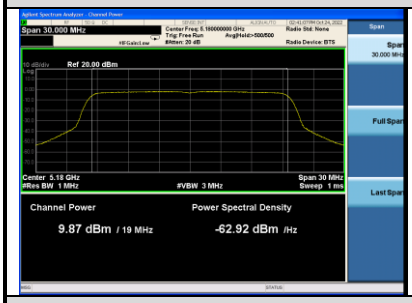	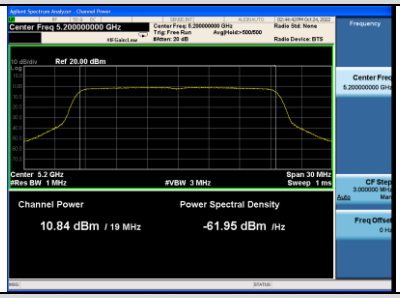	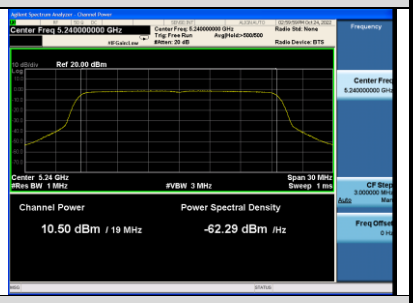
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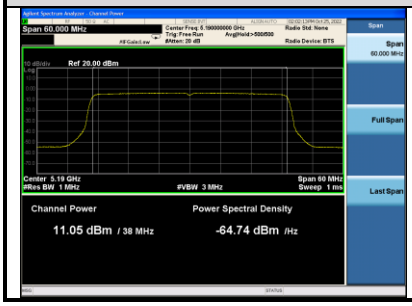	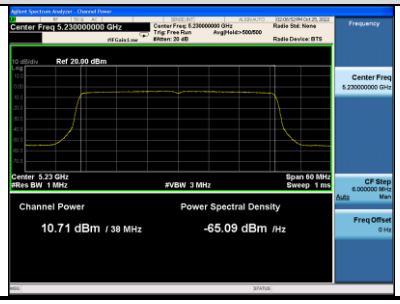	

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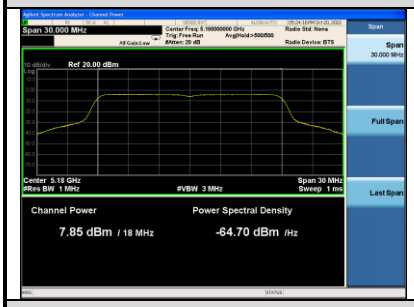	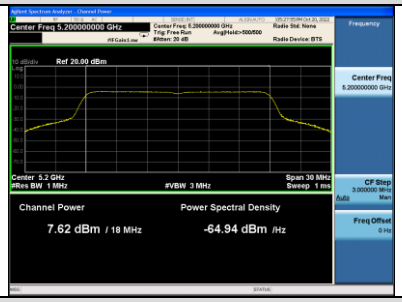
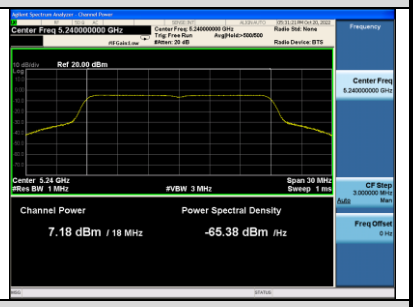	
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	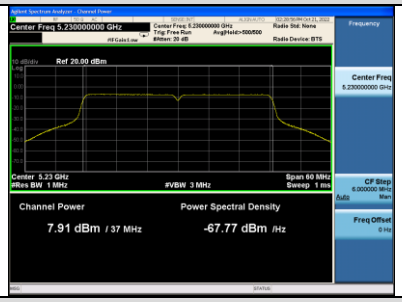

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	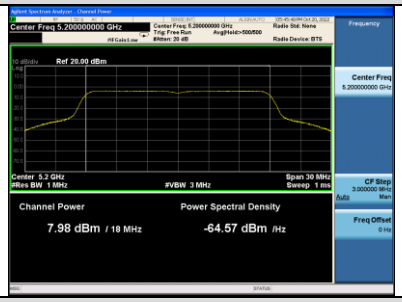
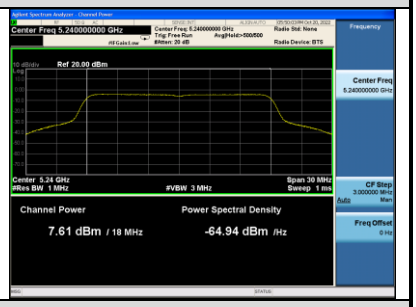	
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	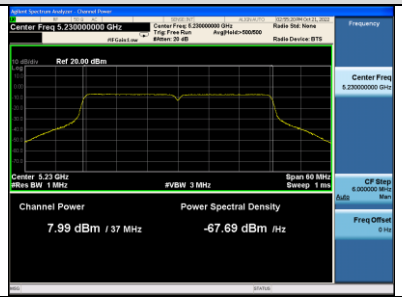
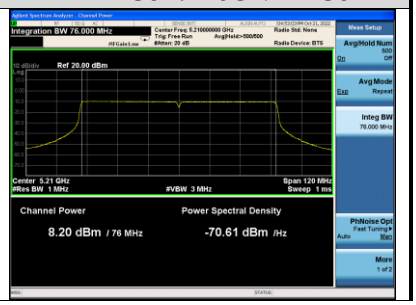	

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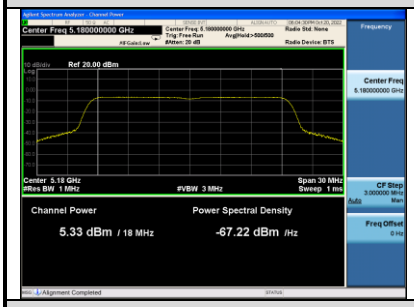	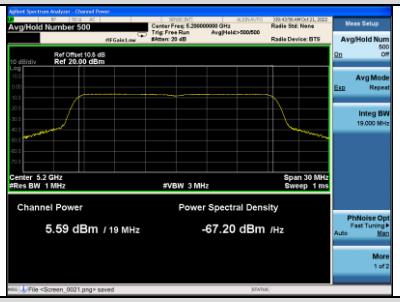	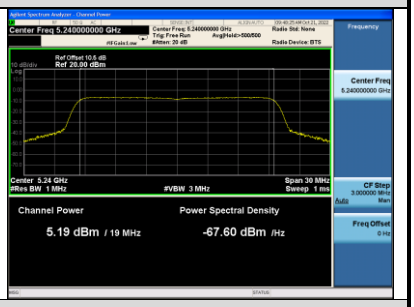
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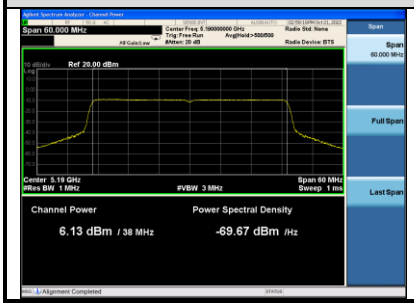
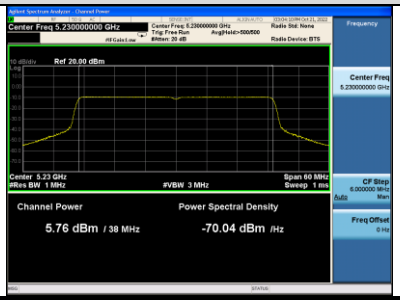
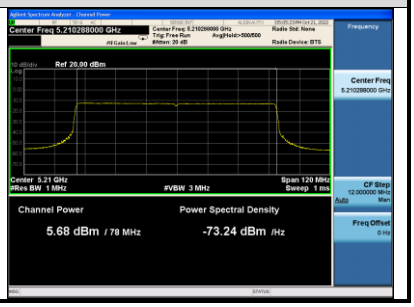
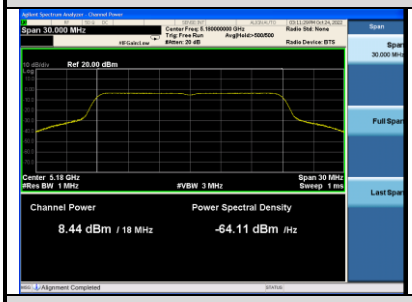
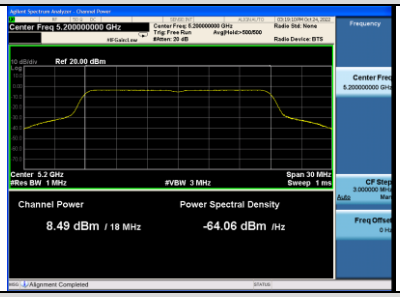
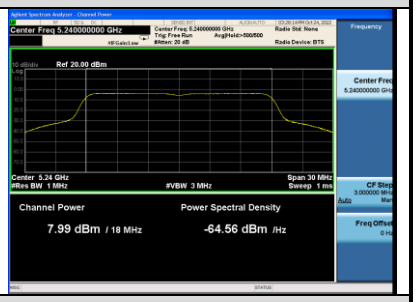
		

U-NII-1 Band: ANT2		
MIMO		
IEEE 802.11n HT20		
		
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	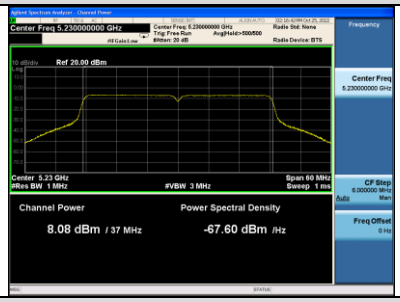	---
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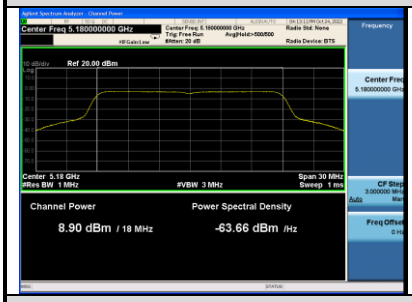	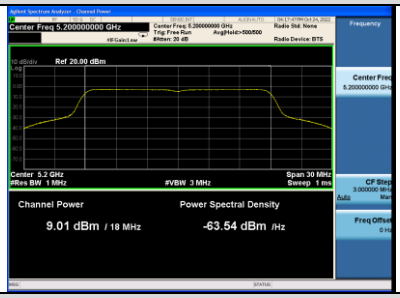	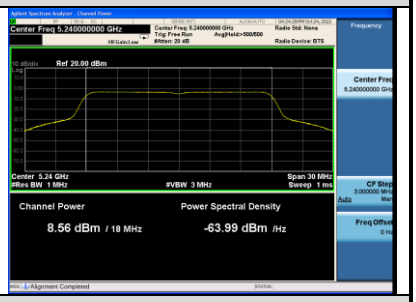
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	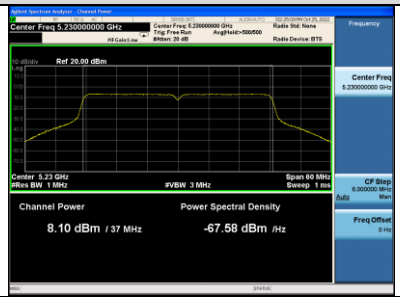	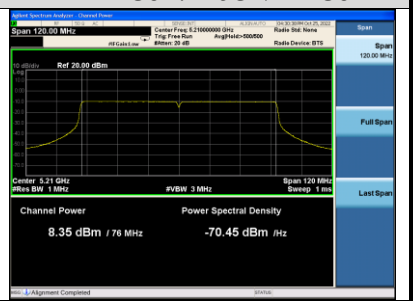

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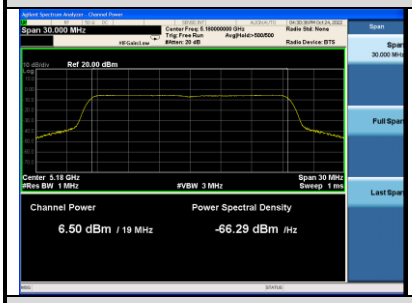	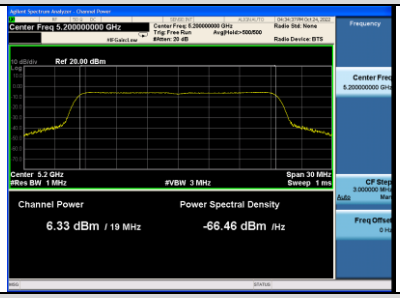	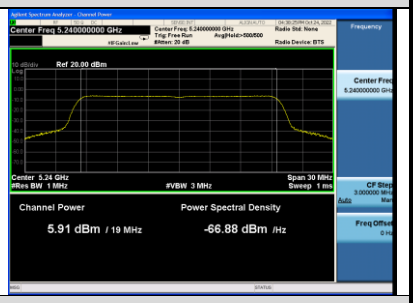
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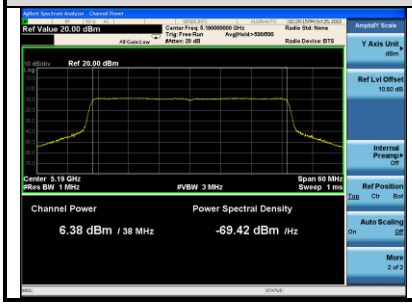	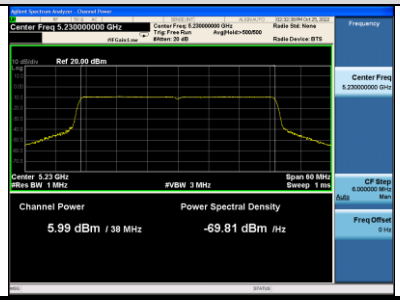	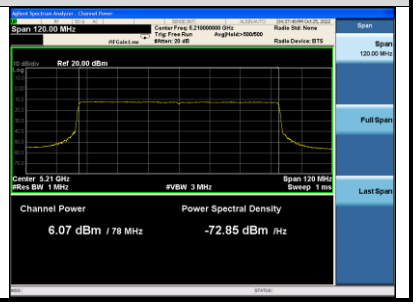

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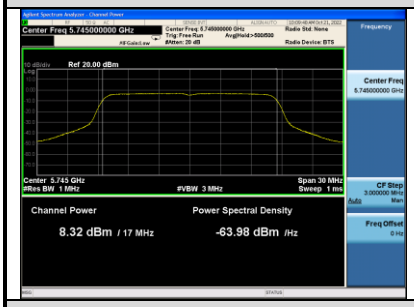	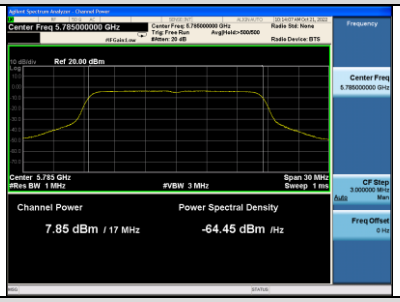	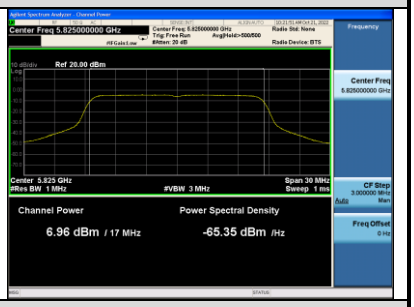
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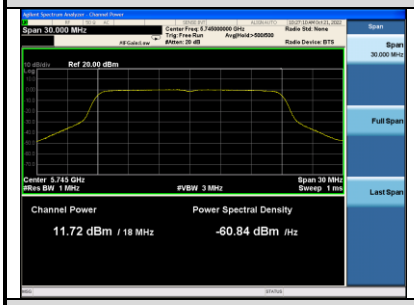	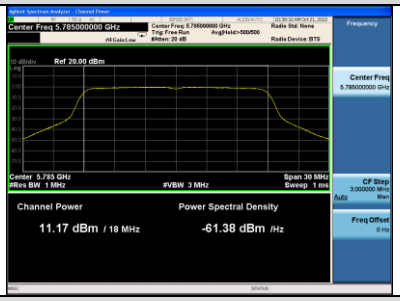	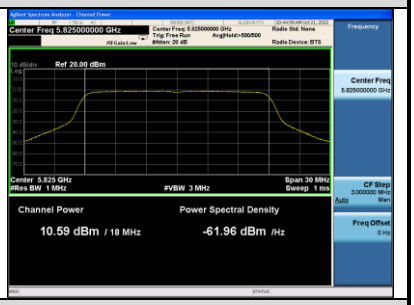
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	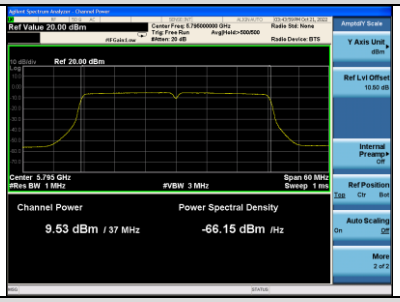	---
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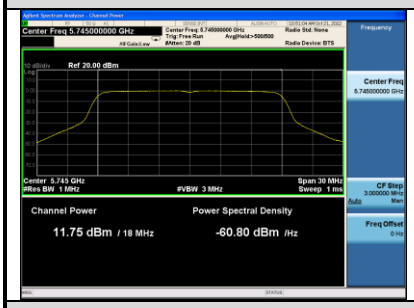	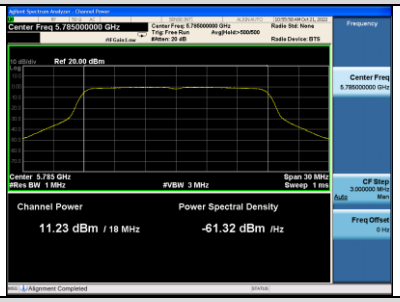	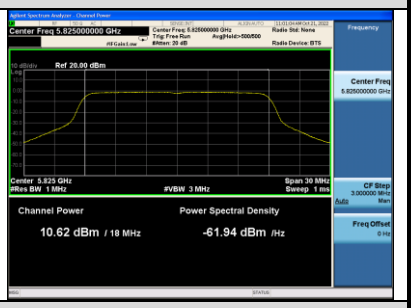
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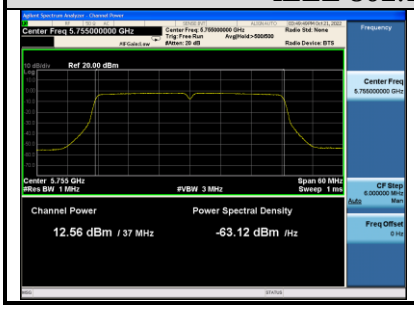
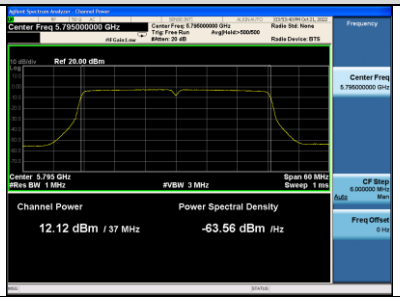
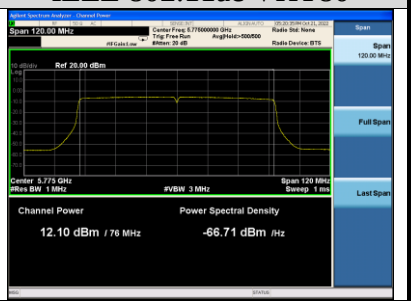
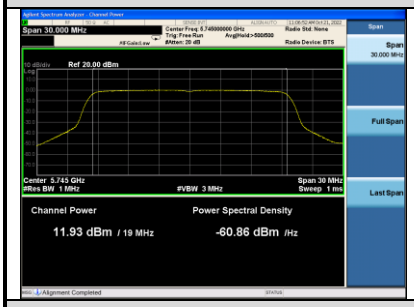
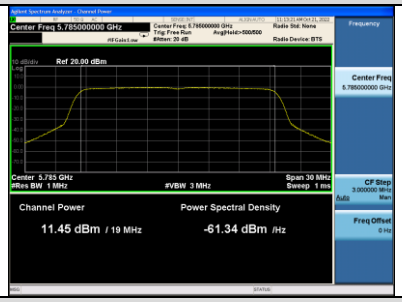
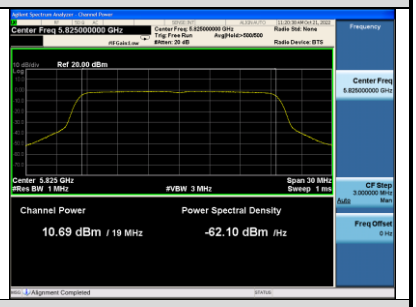
		

IEEE 802.11ax HE20		
		
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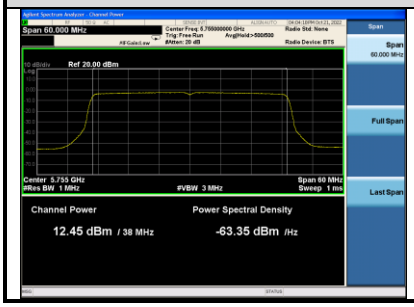	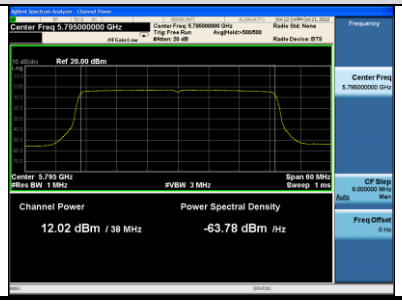	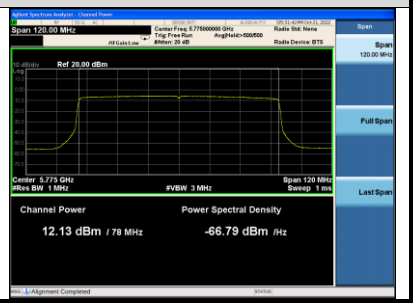

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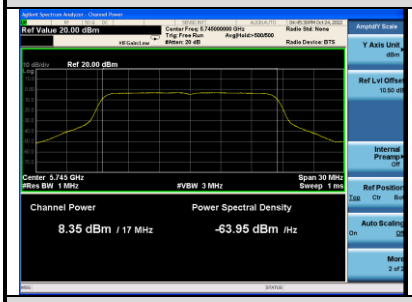
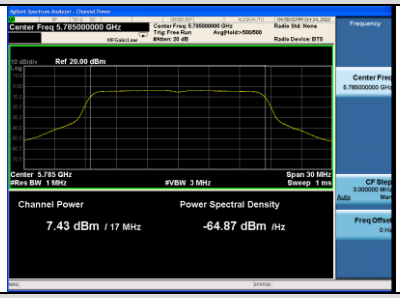
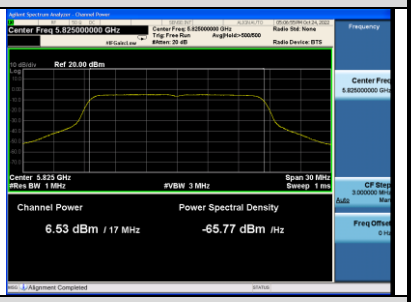
SISO		
IEEE 802.11a		
		
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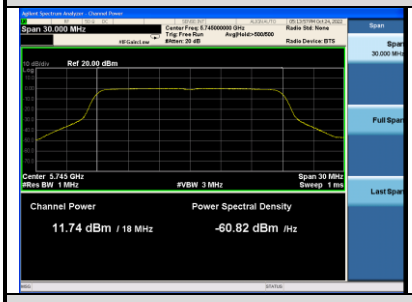	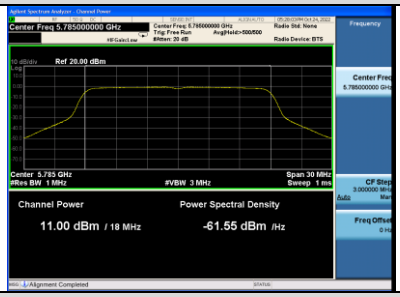	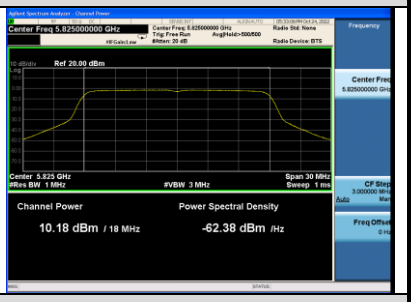
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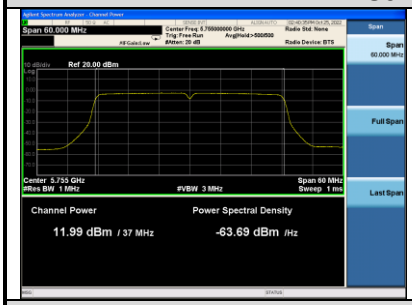	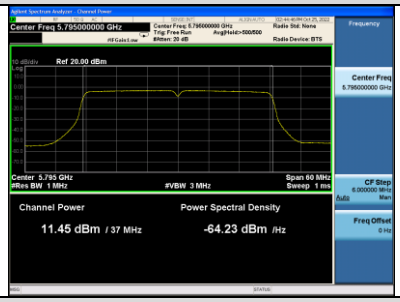	---
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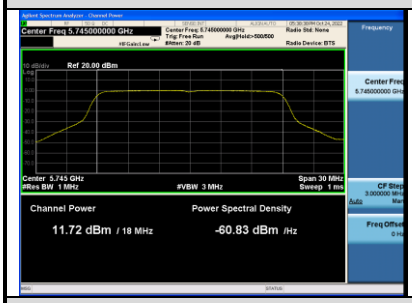	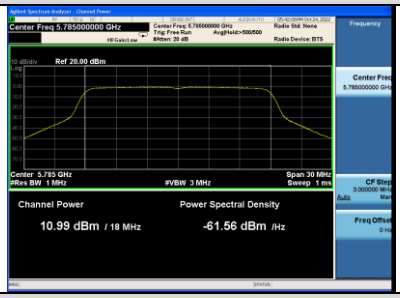	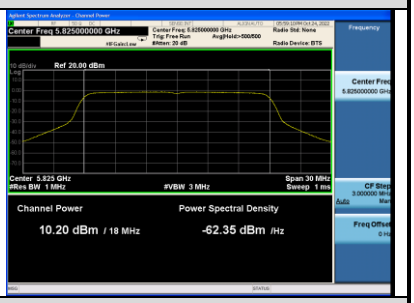
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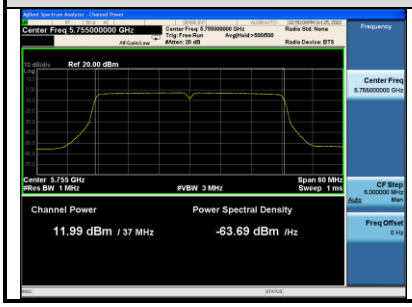	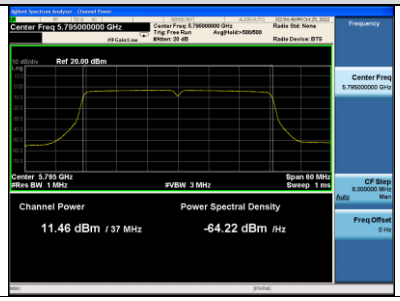	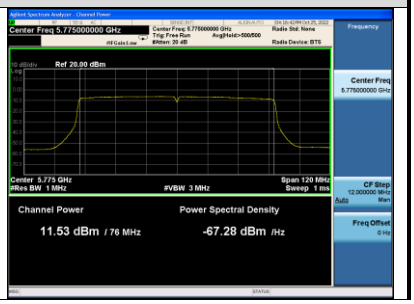

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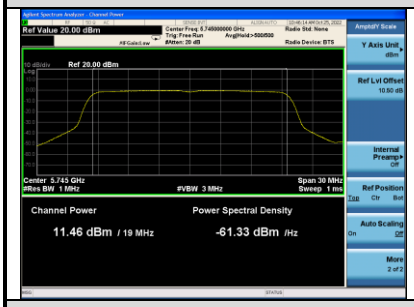	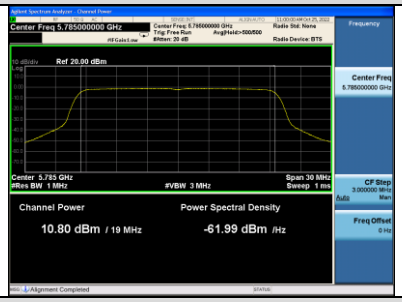	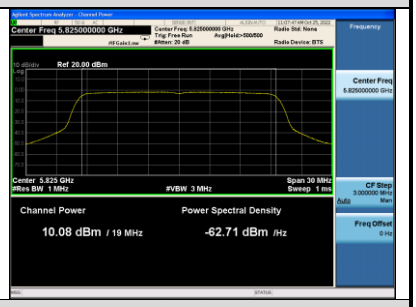
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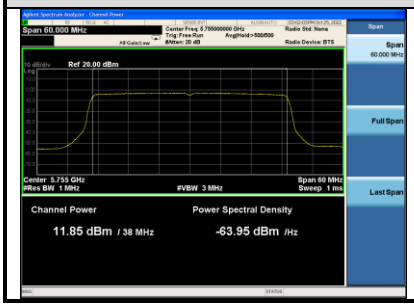	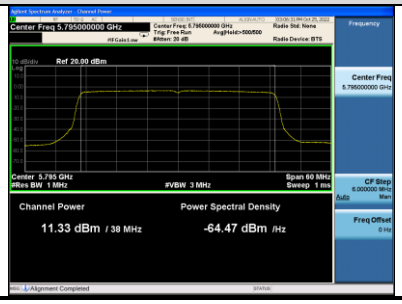	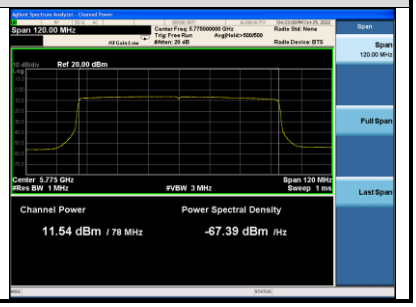

U-NII-4 Band: ANT1		
MIMO		
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	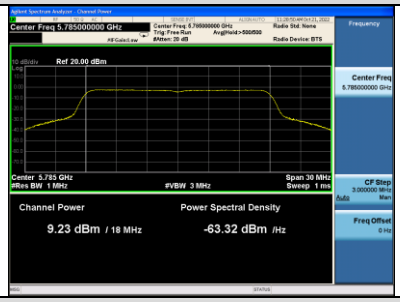	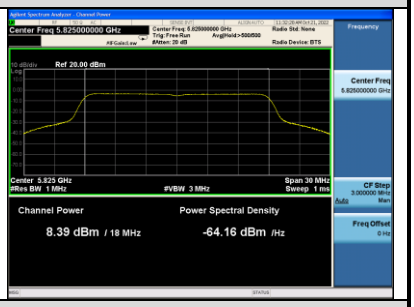
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	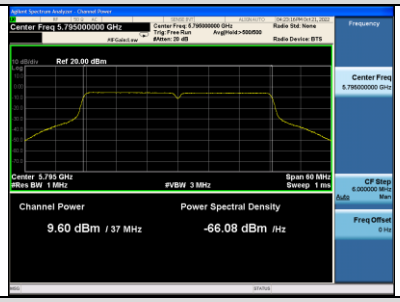	---
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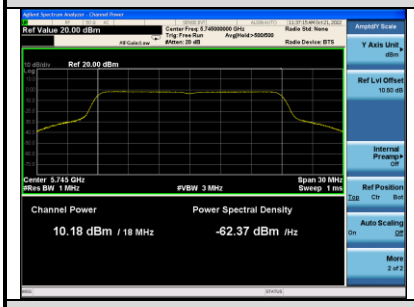	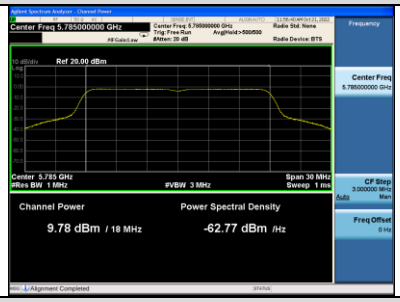	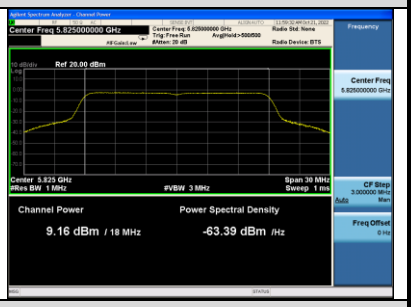
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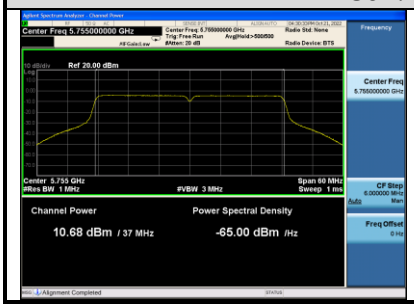	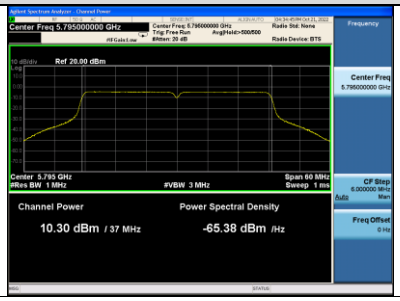	

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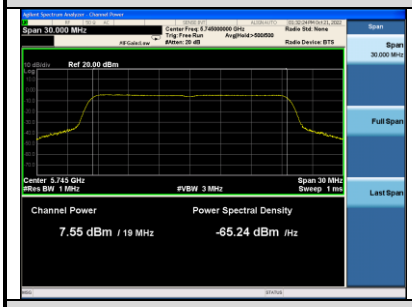	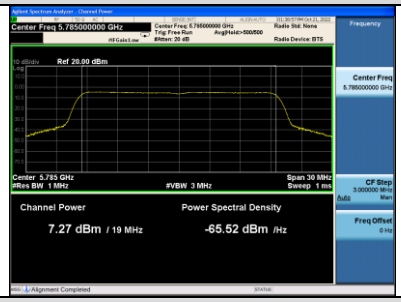	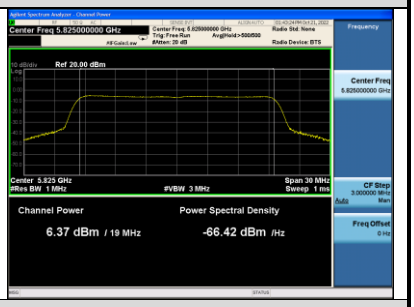
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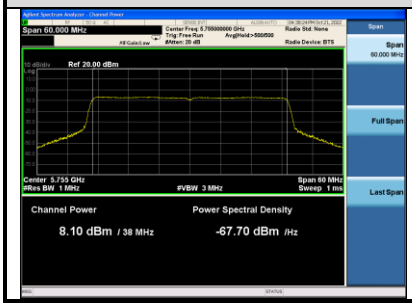	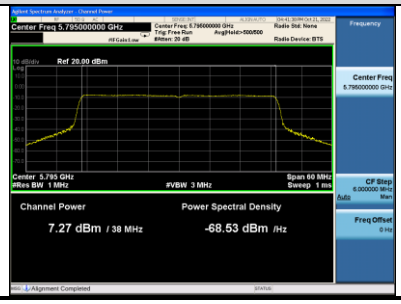	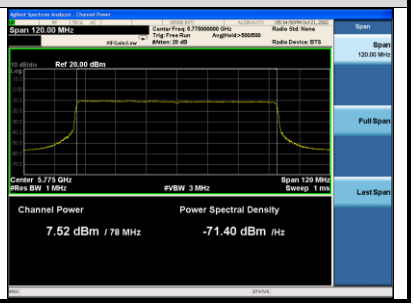

U-NII-4 Band: ANT2	
MIMO	
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	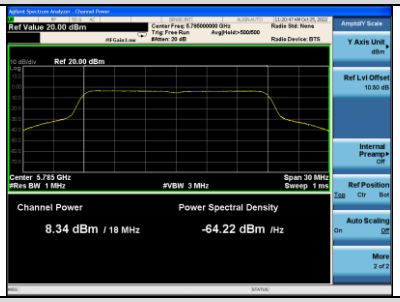 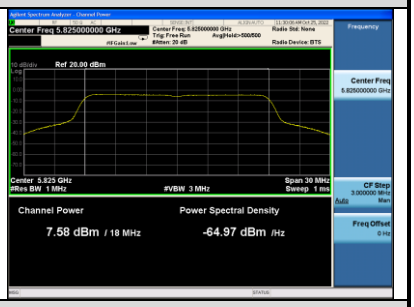
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	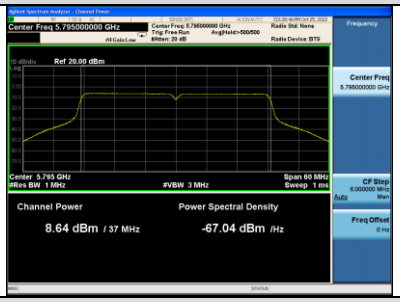 ---
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	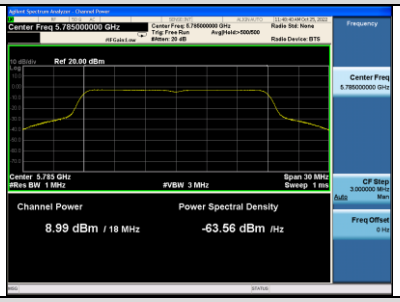 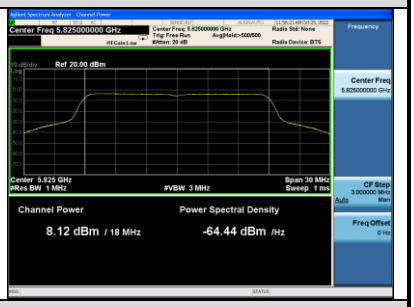
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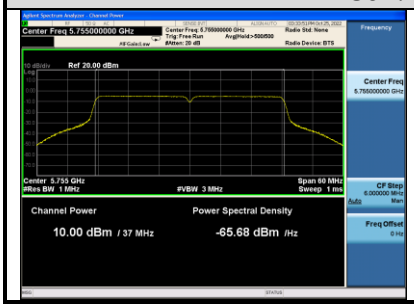	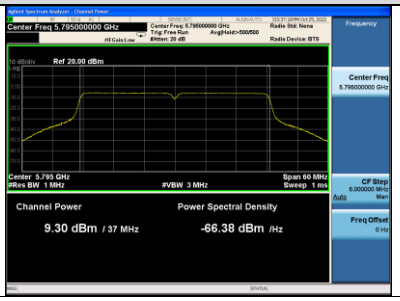 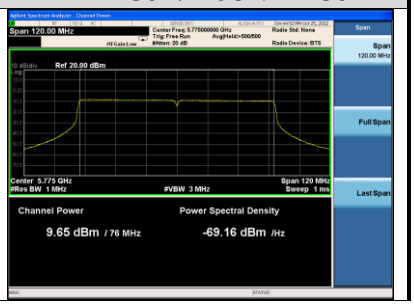

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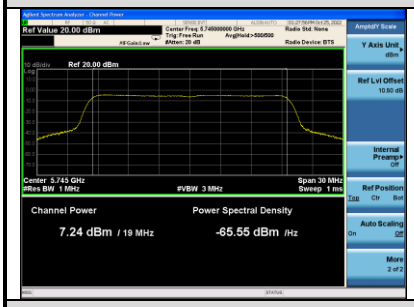	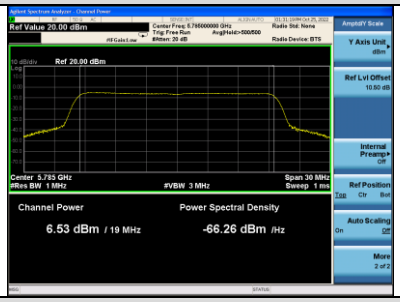	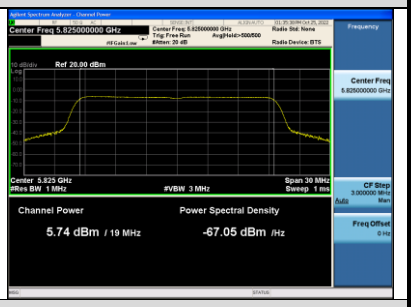
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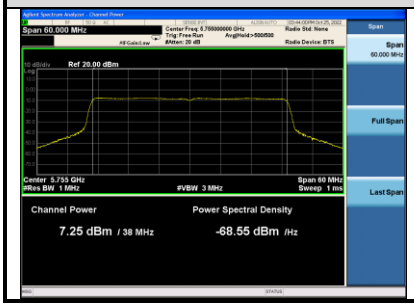
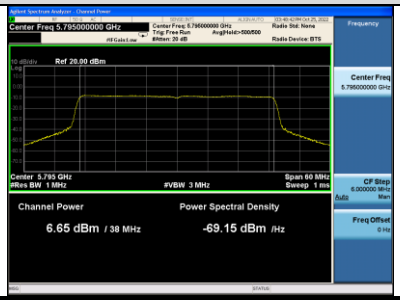
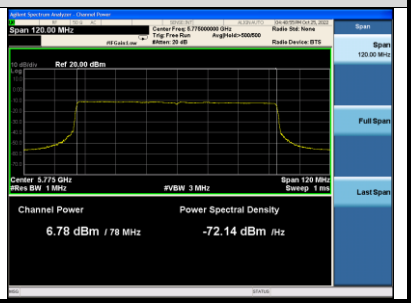
		

8. SPECTRAL DENSITY TEST

8.1.Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.06,22	1 Year
2.	RF Cable	Mini-Circuits	CBL-1M-SMSM+	No.7	Oct.10,22	1 Year
3.	Attenuator	Agilent	8491B	MY39269201	Oct.09,22	1 Year

8.2.Limit

Band 5150-5250 MHz:
The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.
Band 5250-5350 MHz:
The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.
Band 5470-5725 MHz:
The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.
Band 5725-5850 MHz:
The power spectral density shall not exceed 30 dBm in any 500 KHz band.

8.3.Test Procedure

Use the test method described in ANSI C63.10 clause 12.5:
For the Band 5.15-5.35GHz; 5.47-5.725 GHz:
The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW; Detector: RMS mode.

For the band 5.725-5.85 GHz:
The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW,RMS Detector.
So use the test method described in KDB789033 clause E

1) Set the RBW=100kHz and VBW =300kHz
2) Number of points in sweep ≥ 2 Span / RBW.(This ensures that bin-to-bin spacing is ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)
3) Sweep time = auto
4) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
5) Use the “peak search” function of spectrum analyzer find the max value, then add 10log (500kHz/RBW) to the measured result.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

8.4.Test Results

EUT: Display Head Unit		
M/N: DHU 1.0		
Test date: 2022-10-31~11-01	Pressure: 102.1±1.0 kpa	Humidity: 53.2±3.0%
Tested by: Xinyao	Test site: RF site	Temperature: 22.3±0.6℃

U-NII-1 Band:

Test Mode	Frequency (MHz)	Power Spectral Density(dBm/MHz)			Limit (dBm/MHz)
		ANT1	ANT2	Total	
11a	5180	-3.402	-6.453	N/A	11
	5200	-3.142	-6.294	N/A	
	5240	-3.610	-6.603	N/A	
11n HT20	5180	-3.657	-2.992	-0.301	11
	5200	-3.785	-3.118	-0.428	
	5240	-3.782	-3.229	-0.486	
11n HT40	5190	-8.670	-5.662	-3.900	11
	5230	-8.935	-5.717	-4.024	
11ac VHT20	5180	-3.842	-3.001	-0.391	11
	5200	-3.672	-3.132	-0.383	
	5240	-4.010	-3.315	-0.638	
11ac VHT40	5190	-7.336	-5.467	-3.291	11
	5230	-7.536	-6.845	-4.166	
11ac VHT80	5210	-10.388	-9.091	-6.681	11
11ax HE20	5180	-3.664	-4.242	-0.933	11
	5200	-3.203	-2.971	-0.075	
	5240	-3.874	-3.212	-0.520	
11ax HE40	5190	-7.473	-5.883	-3.595	11
	5230	-7.444	-5.862	-3.571	
11ax HE80	5210	-10.429	-9.017	-6.656	11
Conclusion: Pass					

Notes: 1. Directional 10 log[($10^{1.8/10}$)+ ($10^{2.6/10}$)/2]dBi=2.2dBi＜6dBi.

2. The transmit signals are completely uncorrelated.

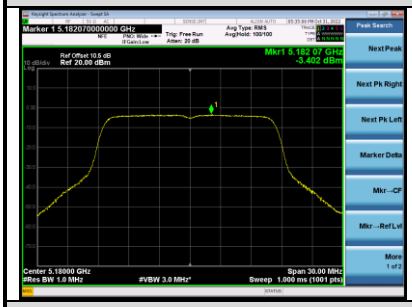
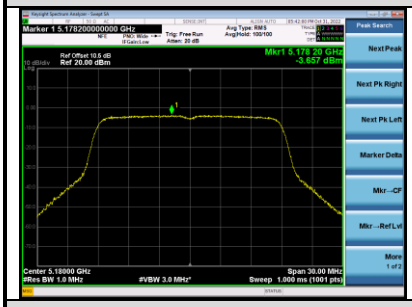
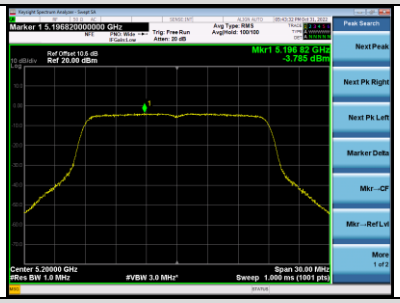
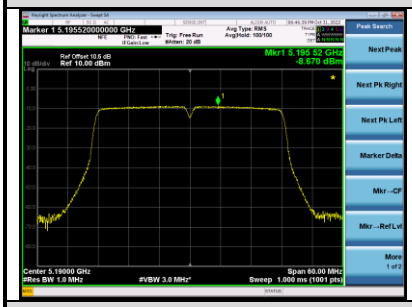
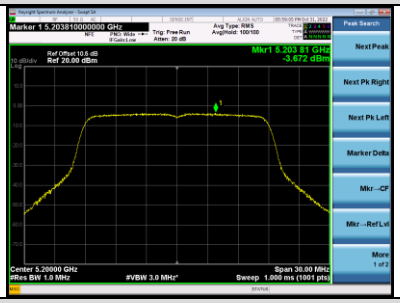
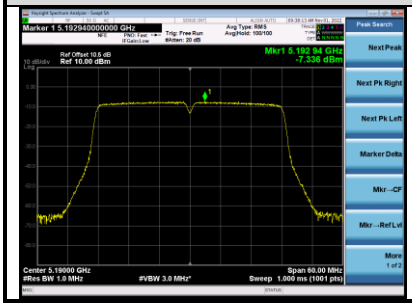
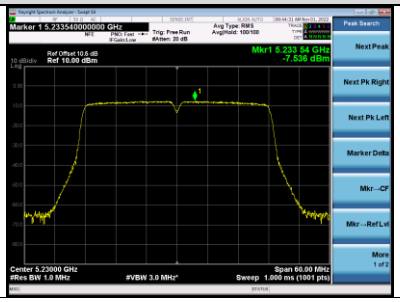
U-NII-4 Band:

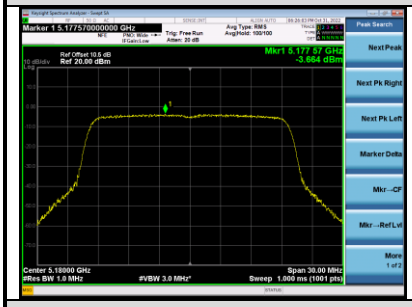
Test Mode	Frequency (MHz)	Power Spectral Density(dBm/500kHz)			Limit (dBm/MHz)
		ANT1	ANT2	Total	
11a	5745	-7.108	-6.594	N/A	30
	5785	-7.640	-6.796	N/A	
	5825	-8.339	-7.899	N/A	
11n HT20	5745	-3.614	-3.223	-0.404	30
	5785	-4.378	-3.914	-1.130	
	5825	-4.645	-4.363	-1.491	
11n HT40	5755	-9.279	-6.187	-4.453	30
	5795	-10.101	-6.831	-5.155	
11ac VHT20	5745	-4.124	-3.122	-0.584	30
	5785	-4.440	-3.830	-1.114	
	5825	-4.985	-4.488	-1.719	
11ac VHT40	5755	-6.764	-6.453	-3.595	30
	5795	-6.948	-6.442	-3.677	
11ac VHT80	5775	-10.649	-9.938	-7.269	30
11ax HE20	5745	-4.748	-4.173	-1.441	30
	5785	-5.420	-4.758	-2.066	
	5825	-6.078	-5.220	-2.618	
11ax HE40	5755	-7.823	-7.552	-4.675	30
	5795	-8.379	-7.610	-4.967	
11ax HE80	5775	-11.055	-10.767	-7.898	30
Conclusion: Pass					

Notes: 1. Directional Gain= 110 log[($10^{2.1/10}$)+ ($10^{2.2/10}$)/2]dBi=2.2dBi＜6dBi.

2. The transmit signals are completely uncorrelated.

3. The result = Reading + 10log(500kHz/1000kHz).

U-NII-1 Band: ANT1		
IEEE 802.11a		
		
IEEE 802.11n HT20		
		
IEEE 802.11n HT40		---
		---
IEEE 802.11ac VHT20		
		
IEEE 802.11ac VHT40		IEEE 802.11ac VHT80
		

IEEE 802.11ax HE20		
		
IEEE 802.11ax HE40		IEEE 802.11ax HE80